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JOVIAL STRUCTURED DESIGN DIAGRAMMER (JSDD), Volume 4
Program Description . Forty

- G. Goddard
- M. Whitworth
- E. Strovink

The Charles Stark Draper Laboratory, Inc.



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ROME AIR DEVELOPMENT CENTER
Air Force Systems Command
Griffiss Air Force Base, New York 13441

Because of the size of this volume, it has been divided into four parts.

Part 1 contains pages 1/2 - 123, 649 - 657, Part 2 contains pages 124 - 344.

Part 3 contains pages 345 - 592, Part 4 contains pages 593 - 648.

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RADC-TR-78-9, Vol III, Part 4 has been reviewed and is approved for publication.

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Section 9

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THIS LISTING CONSISTS OF OUTPUT FROM THE CHARLES STARK DRAPER LABORATORY'S JOVIAL J3 STRUCTURED DESIGN DIAGRAMHER.

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER

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ETURNS THE RESULT OF DISCATEING BB TO TE END OF STRING AA** AA H 150 \$	AA H 150 S CAT H 1	CATLANS THE RESULT OF SHORT OF STRING BB TO	AA H 150 \$. CATCAN, 880 \$. ETURNS THE RESULT OF NCATEMATING STRING BB TO THE END OF STRING AA. AA H 150 \$. CAT H 150 \$. AB B B . BB B . THE (80. 18) (SF1) NQ 1H(C) . THE (80. 18) (SF2) NQ 1H(C) . THE (80. 18) (SF2) RQ 1H(C) .
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ETURNS THE RESULT OF TOWARTENATING STRING 88 TO THE END OF STRING AA** AA H 150 \$ 68 H 150 \$ 68 H 150 \$ 64 H 150 \$ 68 H 160 \$ 180 156 150 \$ 180 1 H 160 \$ 68 H 160 \$ 180 156 150 \$ 180 1 H 160 \$ 68 H 160 \$ 180 156 150 \$ 180 1 H 160 \$ 68 H 160 \$ 180 156 150 \$ 180 1 H 160 \$ 68 H 160 \$ 180 156 150 \$ 180 1 H 160 \$ 180 156 150 \$ 180 1 H 160 \$ 180 156 150 \$ 180 1 H 160 \$ 180 156 150 \$ 180 1 H 160 \$ 180 156 150 \$ 180 1 H 160 \$ 180 156 150 \$ 180 1 H 160 \$ 180 156 150 \$ 180 1 H 160 \$ 180 156 150 \$ 180 1 H 160 \$ 180 156 150 \$ 180 1 H 160 \$ 180 156 150 \$ 180 1 H 160 \$ 180 156 150 \$ 180 150 150 \$ 180	A H 150 \$. A A A B B B B B B B B B B B B B B B B	CAT(AA. 8B) S * RETURNS THE RESULT OF SHOW OF STRING BB TO THE END OF STRING AA** AA H 150 S * AA B * BB B S * THE (SO. 18) (SF1) NQ 1H(C) * THE (SO. 18) (SF2) NQ 1H(C) * THE (S	A H 150 \$ CAT (180, 18) (SF2) NQ 1H(C) ************************************
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ETURNS THE RESULT OF DISCARDING STRING BB TO STRING AA** AA H 150 \$ 68 H 150 \$ 60 A 4	A H 150 & CATIAN, 88) & CATIAN, 88) & CATIAN THE RESULT OF CATEMATING STRING AA** AA H 150 & CAT H 15	CAT(AA. 8B) S * KETURNS THE RESULT OF MA H 150 S * AA S *	AL H 150 & CATIAN, BB & CATIAN, BB & CATIAN BB TO TE END OF STRING AA** AA H 150 & CAT H
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ETURNS THE RESULT OF DISCARDING THE RESULT OF TRING BB TO STRING AA** AA H 150 \$ 68 H 1	A H 150 \$. A A A A B B B . A B B B B B B B B B B	CAT(AA. 8B) S * KETURNS THE RESULT OF AA H 150 S * AA H 150 S * CAT H 150 S * AA	A H 150 \$ CAT (180, 18) (SF1) NO 1H(C) *** *** *** *** *** *** *** **
ETURNS THE RESULT OF DISCARRING STRING BB TO THE END OF STRING AA** AA H 150 \$ BB H 150 \$ CAT H 150 \$ AA H 150 \$ CAT H 15	AA H 150 & CAT H 1	CATCAA. 80) S ETURNS THE RESULT OF SHORT OF STRING BB TO STRING AA. 150 S CAT H 150 S CAT H 150 S AA B S AA B S TE(S0. 15)(SF1) NQ 1H(C)	AA H 150 & CAT H 1
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ETVAN, 89) S	CATCAA, BB) S CATCAA, BB C END OF STRING AA**	CATLAA, 88) \$ * **********************************	CATLAR, BD) S V CATLAR, BD) S V COCCOSTON THE RESULT OF E END OF STRING AA**
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INC BB	INC 88	INC 88	INC BB
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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER DESIGN DIAGRAM OF CAT

PCAT = SF1 8

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OPROC CNVERT(AA) & .	
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*ITEM II I 36 S 8 .	
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*SF3 = AA 8 *	

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMIER Design diagram of cnvert

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LUCTURED DESIGN DIAGRAMER		SF6 & SPACESCHAXCOL) &SF6 & SPACESCHAXCOL) &SF6 & SPACESCHAXCOL) &	
C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design Diagram of Cnvert	••••	CITY I EQ 25 AND DONE EQ 0 8 0SF6 = SPACES(MAXCOL) 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 25 AND DONE EQ 0 8 CITY II EQ 0 8 CITY	

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C S ORAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of cnvert

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER DESIGN DIAGRAM OF SPACES

DESIGN DIAGRAM OF SPACES

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G S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design Diagram of Mull

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of Length

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRANNER DESIGN DIAGRAM OF PUT" OUT

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ENCODE(6H(I6)),

STUMP'NUMBER = H6) &

CHAR30 = 1H() &

""" TO CLEAR OUT STRING"

BYTE(80, 65) (CHAR30) = H6 &

""" TO CLEAR OUT STRING"

** TO RESET FOR NEXT STUMP**

C S CRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of Numj

PESIGN DIAGRAN OF NUMJ *** PEROC NUMA(AA) \$ ** *** USED TO OUTPUT A NUMBER *** UNER UTILIZED, BUT RETAINED *** LONGER UTILIZED, BUT RETAINED *** FOR FUTURE DISASTER** *** TIEM AA I 36 \$ ** *** ITEM AB H 6 \$ ** *** ITEM AB H 6 \$ ** *** ITEM AB H 6 \$ ** *** ITEM BB H 6 \$ ** **				0		• •	• •
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*PROC INITIALIZATION S *

FIGHT H 0. 1. 200 S ---FLAG-ARRAY(SIS) = - 1 S - seconsecrete **PROC SETS UP INITIAL QUANTITIE, CLEARS BIT ARRAY AND FLAGARRAYS** ******************** *OPEN OUTPUT DIAG**** .

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of First*Pass

* **THIS PROCEDURE READS IN * FILED AND SORIS PROC AND * FUNCTION NAMES**	
PITEM DONE B S C C C C C C C C C C C C C C C C C C	
INPUT FILED	
***OK, LET'S OPEN THE SYMTAB*	
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elfeith ************************************	

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*********	FROM 27 .	*************
•	. 28	*****
	***************************************	* 26 FROM 27 *

TEMPI1 = 2 \$ *

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of find

SEARCH = LOWER + REMAIN S + THAPIL = EQUALS (SEARCH, + THAPIL = EQUALS (SEARCH, + THAP 50) S + THAP 50 S + THAP 5

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ONIL ES S CONTROL S S S S S S S S S S S S S S S S S S S	*INDEX = SEARCH &	RETURN CORRECT INDEX.	*RETURN 8		****************	ORIF TEMPILES - 1 \$ ""INOEX = SEARCH - 1 \$ *	******	*************	+++ORIF 1 S TINDEX = SEARCH S +	**************
TELLIN CONTROL OF THE PROPERTY		•	•	•	***************		•	**********	++0RIF 1 S +	

SEARCH & SEARCH & LOWER & ... TO GET TO MIDDLE" ... TEMPIL & EQUALSISEARCH ... HEMPIL & EQUALSISE ... WE'RE NOT CLOSE TO FINDING.

---ORIG 1 & ----UPPER = SEARCH & -

SPROC INSERTITEMPAGE & S	
•	
OBJECT OF THIS PROCEDURE IS	
· TO INSERT ENTRIES INTO	
- TAGE ARREI	
•	
WITEN TEMPSO N SO S C	

TE INDEX GO MAX ENTRY - 1 SPRO	PROCARRA(SHAX-ENICTS) =
	*FLAG" ARRAY(SHAX" ENTRYS) = - 1"
•	
NOTE SEE	PRESIDE & MAX-ENIXY + 1 \$
SIHL	*THIS INSERT WAS EASY - JUST*
	PENO.
TOUGHER"	
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•	
PFOR I = MAX-ENTRY - 1 1. + Bees	*** *** *** ** *** *** *** *** *** ***
EX + 1 \$	*FLAG*ARRAY(SI + 18) = *
•	FLAG ARRAY(SIS) S
	* PROC ARRAY(SI + 15) =
****	*** HAKE ROOM FOR NEW ENTRY" .
· · · · · · · · · · · · · · · · · · ·	
PROPERTY & HAX-ENTRY + 1 St .	
5	
* TEMP30 S	
PFLAG ARRAYGINDEX + 18) + - 19	
INITIALIZE IT, ALSO	

G S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of Equals

**COMPARES CHARACTER STRINGS ON A BIT LEEF FOR SORTHG NURSED NYE STRING THE S	
GUNENS E CHARACTER STRINGS A BIT LEVEL FOR SORTING GUNENS RE COUNT. HORCED NAME LOAD. HORCED NAME NAME NAME NAME NAME NAME NAME NAME	•
COUNTER SCHARGE RECTURE SCHARGE RECTURE OF SCHARGE RECTURE OF SCHARGE RECTURE OF SCHARGE COUNTER AND -1 IF IT BELONGS SERROTH INTEGER S SERVICE OF SERROTH S SERVICE OF SERVICE S SERVE OF SERVICE S SERVICE OF SERVICE S SERVE OF SERVE OF S SERVE	
A TEMPOSE, RETURNS 0 IF FROMES, RETURNS 1 IF BELONGS FORCE, AND -1 IF IT BELONGS FORCE, TEMPOSE NO. 1 TEMPOSE NO. 1 IF IT BELONGS FORCE, AND -1 IF IT BELONGS FORCE, RETURNS 0 IS COUNTER + 1 S TEMPOSE NO. 1 IF IT BELONGS FORCE, RETURNS 0 IS COUNTER + 1 S TEMPOSE NO. 1 IF IT BELONGS TEMPO	COMPARES CHARACTER STRINGS
REDUCES, RETURNS 0 IF CURTED NAME IN PROC'ARRAY HOEKED BY SEARCH IS EQUAL TEMPO BY SEARCH IS EQUAL TEMPO BY SEARCH IS EQUAL TEMPO BY SEARCH INTEGER S SEARCH INTEGER S SEARCH INTEGER S TEMPO HOS ARRAYESEARCHS) TEMPO HOS S TEMPO HOS	ON A BIT LEVEL FOR SORTING
GENERA SARE GUAL (IF DECKED NAME IN PROGRARY NOEKED BY SEARCH) IS EQUAL ARCHORIS AND -1 IF IT BELONGS FORE: COUNTIS INTEGE 8 FEMPL 1 MIGGER 9 FEMPL 2 INTEGE 8 FEMPL 2 INTEGE 8 FEMPL 2 INTEGE 8 FEMPL 30 8 FEMPL 30 8 FEMPL 30 9 FEMPL 3	* PURPOSES. RETURNS 0 IF
MOCKED NAME IN PROCYARRY MOCKED NAME IN PROCYARRY MOCKED NAME IN PROCYARRY I THYSO BELONGS AFTER THE FORE. AND -1 IF IT BELONGS SERRCH INFECR 8 FORDALS INFERS 8 FORDAL	ARE EQUAL
ARGURENT STRING TERP30. 1 TERP30 BELOKGS FERCH MIEGER 8 EQUALS INTEGER 8 EQUALS INTEGER 8 EQUALS INTEGER 8 EQUALS INTEGER 8 COUNTER NITEGER 8 EMPT 1 BELOKG 8 COUNTER NITEGER 8 EMPT 2 I 18 EMPT 2 I 18 EMPT 3 I 18 EMPT 3 I 18 EMPT 4 I 18 EMPT 4 I 18 EMPT 5 I 18 EMPT 6 I 18 EMPT 6 I 18 EMPT 7 I 18 EMPT 8 I 18 EMPT 8 I 18 EMPT 9 I 18 EM	INDEXED NAME IN PROC.
ARGUMENT STRING TEMP30), 1 TEMP30 BELONGS AFTER THE OFF. AND - 1 IF IT BELONGS FORE. COUNTE INTEGER 8 TEMP30 H 30	. (INDEXED BY SEARCH) IS EQUAL
TEMP30 BELONGS AFTER THE FOREST AND -1 IF IT BELONGS FORE. EQUALS INTEGER 8 SERCH INTEGER 8 SERCH INTEGER 8 TEMP31 H 30 8 TEMP32 INTEGER 8 TEMP32 INTEGER 8 TEMP32 INTEGER 9 TEMP33 INTEMP33 INTERP33 INTERP34 INTER34 INTERP34 INTERP34 INTERP34 INTERP34 INTERP34 INTERP34 INTERP34	
FORE FORE FORE FORULS INFGER 8 FERTI INFGER 8 FORUNTER INFGER 93. FORUNTER 1 3 FORUNTER 1 4 FORUNTER 2 4 FORUNTER 1 4 FORUNTER 1 4 FORUNTER 1 4 FORUNTER 1 4 FORUNTER 2 4 FORUNTER 1 4 FORUNTER 1 4 FORUNTER 2 4 FORUNTER 1 4 FORUNTER 1 4 FORUNTER 2 4 FORUNTER 1 4 FORUNTER 2 4 FORUNTER 1 4 FORUNTER 1 4 FORUNTER 2 4 FORUNTER 2 5 FORUNTER 1 4 FORUNTER 2 5 FORUNTER 2 5 FORUNTER 2 5 FORUNTER 2 5 FORUNTER 3 1 FORUNTER 2 5 FORUNTER 1 4 FORUNTER 2 5 FORUNTER 2	TEMP30 BELONGS AFTER THE
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SERRCH INTEGER 8 SERRCH INTEGER 8 TEMP3 4 130 4 TEMP1 INTEGER 8 TEMP1 1 10 6 TEMP2 1 10 6 TEMP3	* BEFORE.*
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TEMP101 H 30 \$ TEMP101 H AN H A	

CLEARLY, COMPARISON IS GOING **CLEARLY, COMPARISON IS GOING **TO TAKE PLACE ON BIT LEVEL, **SINCE WE HAVE TO TREET THE **CHARACTERS IN THE NAMES AS **NUMBERS **SINCE WE HAVE TO TREET **SINCE WE HAVE TO TREET TO TREET **SINCE WE HAVE TO TREET TO	
**************************************	160 2 01
CLEARLY, COMPARISON IS GOING **CLEARLY, COMPARISON IS GOING **TO TAKE PLACE ON BIT LEVEL, **SINCE WE HAVE TO TREAT THE **CHARACTERS IN THE NAMES AS **NUMBERS **TEMPLZ ** BIT (\$COUNTER ** 30.** **TEMP	

**CLEARLY, COMPARISON IS GOING **TEMIL = BIT(SCOUNTER * 30.* **30\$)(TEMP30) \$ **TEMPIL = BIT(SCOUNTER * 30.* **TEMPIL = BIT(SCOUNTER * 30.* **TEMPIL = BIT(SCOUNTER * 30.* **333)(TEMP31) \$ **TEMPIL = BIT(SCOUNTER * 30.* **TEMPIL = BIT(SCOUNTER * 3	

** SOBITEMENDER * 18 ** ** SOBITEMENDER * 30.* ** SOBITEMENDER * 30.* ** SOBITEMENDER * 30.* ** TEMPI1 = BIT(\$COUNTER * 30.* ** SINCE WE MAVE TO TREAT THE CHARGERS IN THE NAMES AS NUMBERS** ** TEMPI2 = BIT(\$COUNTER * 30.* ** SINCE WE MAVE TO TREAT THE CHARGERS IN THE NAMES AS NUMBERS** ** SINCE WE MAY TO TREAT THE CHARGERS IN THE NAMES AS NUMBERS** ** SINCE WE WE TO TEMPIS S **********************************	
** 30\$) (TEMPI) ** SOUNTER ** 30.* ** 30\$) (TEMPI) ** SOUNTER ** 30.* ** 30\$) (TEMPI) ** SOUNTER ** 30.* ** TO TAKE PLACE ON BIT LEVEL. ** SINCE WE MAVE TO TREAT THE ** CHARACTERS IN THE NAMES AS ** NUMBERS** ** TEMPI ** BIT (\$COUNTER ** 30.* ** 33\$) (TEMPI) ** ** ** ** ** ** ** ** ** ** ** ** **	
ON IS GOING IT LEVEL, REAT THE NAMES AS ***********************************	*TEMPI1 = BIT (\$COUNTER *
IN IS GOING TO LEVEL.	+ 30g) (TEMP30) &
IN IS GOING TO LEVEL. TO LEVEL. TO LEVEL. TO A B B B B B B B B B B B B B B B B B B	
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* 30.* * 30.* * TENTZ \$ *+	• CHARACTERS IN THE NAMES AS
* 30.° * 30.° * TENTZ & ***********************************	· NUTBERS.
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2 \$ ***** ***** . ****** THE	
2 \$ ***** *****+	e 30\$)(TEMP301) \$
*****TEMP'11 LS TEMPI2 & ****** *****************************	
**************************************	•
*****TEMPII LS TEMPIZ \$ ****** ****************************	
****TEMPIX LS TEMPIZ \$ ****** * **************************	****

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER DESIGN DIAGRAM OF EQUALS

. COMPARISON MORKED	The second of th	***************************************	*EQUALS = - 1 8 *	*RETURN \$	**********		EL GR TEMPIZ S EQUALS = 1 \$	* # # # # # # # # # # # # # # # # # # #	*RETURN \$	****************		***************************************	+-*ORIF COUNTER EQ 5 8 **EQUALS # 0 8 *
			•		•	•	 STANDE TEMPT	*********	•	•	•	*********	ORIF COUNT

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G S ORAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design diagram of Second-Pass

*PROC SECOND PASS & *	
· · · SETS UP INITIAL BIT ARRAY · · · SETS UP INITIAL BIT ARRAY · FOR CREATING DIAGRAM ·	
FITER DONE B &	
TIEM CALLED" PROC INFEGER 8 .	
STIEST FOR S S S S S S S S S S S S S S S S S S S	
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* READING SESSION**	
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G S DRAPER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRANHER Design diagram of Second-Pass

DESIGN DIAGRAM OF SECOND P										
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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAPMER Design Diagram of Second'Pass

*** FROM 35 ** *** FROM 35 ** *** FEMP30 = F8 ENTRY(SI\$) \$ *** PICKUP A CALLED PROC NAME** *** FIND(TEMP30) EQ 1 \$ *** SET CALLED*PROC = INDEX ** *** SET SIT (CUR*PROC, CALLED*PROC,** *** 1) \$ *** CUR*PROC CALLED*PROC,** *** CUR*PROC CALLED*PROC CALL	***************************************
ED PROC NAME. EQ 1 S	e SO TORL AN e
** FEMP30 = F3 ENTRY(SI\$) \$ ** PICKUP A CALLED PROC NAME.** ** PICKUP A CALLED PROC = INEX \$ ** IF FIND(TEMP30) EQ 1 \$ ** SET CALLED PROC = INEX \$ ** SET SIT (CUR' PROC, CALLED' PROC,** ** 1) \$ ** CUR' PROC CALLE CALLED PROC.** ** CUR' PROC CALLED PROC.** ** CUR' PROC CALLED PROC ** ** CUR' PROC CALLED PROC.**	
*** PICKUP A CALLED PROC NAME*** *** PICKUP A CALLED PROC NAME*** *** FINOTEMP30) EQ 1 \$ **********************************	
** FEMP30 = F@FENTRY(SIS) \$ *** PICKUP A CALLED PROC NAME*** ** IF FIND(TEMP30) EQ 1 \$ ***** CALLED*PROC = INDEX \$ ** IF FIND(TEMP30) EQ 1 \$ ***** CALLED*PROC TO INDEX*** ** IN S ** IN S ** IN S ** IN SITE ARRAY THAT *** CALLED*PROC CONTROL	
PICKUP A CALLED PROC NAME.** ***PICKUP A CALLED PROC NAME.** ******************************	
PICKUP A CALLED PROC NAME" ********************************	*TEMP30 = F0*ENTRY(SIS) S
** IF FIND(TEMP30) EQ 1 \$ **CALLED'PROC = INDEX \$ ** ** IF FIND(TEMP30) EQ 1 \$ **CALLED'PROC TO INDEX.** ** IN STATE OF THE STA	PICKUP A CALLED PROC NAME
** IF FIND (TEMP30) EQ 1 \$ **********************************	
*IF FIND(TEMP30) EQ 1 \$ **********************************	
*IF FINGUREMPSO) EQ 1 % **********************************	•
*IF FIND (TEMP30) EQ 1 \$ *****CALLED*PROC = INDEX \$ *****CALED************************************	
**************************************	ere FIND(TEMP30) EQ 1 SCALLED*PROC = INDEX \$
*SET*BITCUR*PROC* CALLED*PROC.* * 1) \$ * - INDICATE IN BIT ARRAY THAT * * CUR*PROC CALLS CALLED*PROC .*	******************* *** SET CALLED PROC TO INDEX**
*SET*BIT(CUR*PROC, CALLED*PROC,* * 1) * **INDICATE IN BIT ARRAY THAT * * CUR*PROC CALLS CALLED*PROC ***	
+SET'BIT(CUR'PROC, CALLED'PROC, ** 1) \$ +**INDIGATE IN BIT ARRAY THAT ** CUR'PROC CALLS CALLED'PROC ***	•
*SET*BIT(CUR*PROC, CALLED*PROC,* * 1) \$ * **INDICATE IN BIT ARRAY THAT * * CUR*PROC CALLS CALLED*PROC ***	
* 1) \$ ***INDICATE IN BIT ARRAY THAT # * CUR* PROC CALLS CALLED*PROC ***	*SET*BIT (CUR*PROC, CALLED*PROC,*
INDICATE IN BIT ARRAY THAT ** * CUR* PROC CALLS CALLED*PROC *** *****************************	
e CUR"PROC CALLS CALLED"PROC ""#	INDICATE IN BIT ARRAY THAT
	* CUR* PROC CALLS CALLED PROC **

*/ LQ 1 \$

*/ LQ 2 \$

*/ LQ 2 \$

*/ LQ 3 \$

*/ LQ 3 \$

*/ LQ 4 \$

*/ LQ 4 \$

*/ LQ 5 \$

*/ LQ 6 \$

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design diagram of set-bit

	C S DEAFER LABORAIORT JOVIAL STRUCTURED DESIGN DESIGN DIAGRAN OF SET* 811
	SPROC SET'BET (AA. BB. CC) & .
	200
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	CC INTEGE
	EN TEMPTO H 70 S
	TEMP70 = 817.A
	INTRODUCE TEMPORARY TO AVOID
	· COMPLLER BOMB.
_	
_	• • • • • • •
	T (\$88 .
	* BIT (\$34. 25) (CC) \$
	•
	· CONTRACTOR CONTRACTO
	BIT-ARRAY IS IMPLEMENTED AS
	. CHARACTER STRINGS, SO THAT'S
	. WHY THE BIT FUNCTION MUST BE
	. 0260.
	*** RE-ASSIGNMENT OF TEMPORARY***

C S DRAFER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design Diagram of Get"bit

"BIT (AA. BB) ANSE." INTEGER STOREGER			TO READ A					•	•		•		•	•	
TOBER PROPERTY PROPER	88)		CEDURE TO	IT ARRAY			*******	•			TEGER \$	RAY(SAAS)		T-817) =	S) (TEMP70
11	ROC GET BIT (AA.				A TABASE		*********			-	-		*	. 28) (GE	RA . 2. 2

C. S. DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER DESIGN DIAGRAN OF MARSHALL

		. L . B. T		FFLAG = 1 \$ * *********************************
DESIGN DIAGRAM OF MARSHALL	PROC MARSHALL S	MARSHALL'S ALGORITHM. MARSHALL'S ALGORITHM. MOMEVER, IT DOES DO A TRANSITIVE CLOSURE ON THE BLT. MATRIX, ASSIGNING NEW VALUE OF "2" TO N-LEVEL TRANSITIVITY, N GR 1".	OTTEN FLAG B S C	**************************************

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER

DESIGN DIAGRAM OF WARSHALL	***************************************	* 61 FROM 60 *			escences establishing 8 FOR K = 0. 1. MAK-ENTRY - 1. 8 of GET-BIT(I, K) NQ 0. 8 4.2 - error contractions are second as a contraction of the contractio
				**** ************************	Secret CET BIT(I, K) NQ 0 8 00 42

THE DIVINERS			. 21 8 .
AL SIRUCIORED DES		***************************************	**************************************
C 3 DEAFER LABORATURY JUSTIN, STRUCTURED DESTEN DIAGRAMICA.	• 42 FROM 41 •		erecesses erecesses eres SET BIT(J, K, Z) S erecesses ereces erecesses ereces ereces erecesses ereces er
OE STON	7		1F GE

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C S DRAFER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRAMMER Design Diagram of Check-Recursion

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******************
                                      FOR RECURSIVE LOOPS IS TO
E STANDE THE MIAN DISCOND. OF
THE BIT HATRIX. If THERE ARE
ANY NONZERO ELEMENTS, THEN
THE PROCEDURE OF THAT INDEX
IS EINTER PART OF A RECURSIVE
LOOP OR SIMPLY GALLS
*PROC CHECK*RECURSION S *
                                                                                                                · IF FLAG S
                                                                                                                                                                                                  ***********
```

C S DRAPER LABORATORY JOYLAL STRUCTURED DESIGN DIAGRAMMER Design diagram of Print

PACCE PRINT & *	*THIS IS A RECURSIVE PROCEDURE WHICH PRINTS OUT THE INVOCATION DIAGRAM FROM THE DATABASES ASSEMBLED BY FIRST*PASS AND SECOND*PASS**	**************************************	• IF PTR EQ 0 \$RETURN \$ •	++ORIF 1 SMRITE HORE 2 S
	CURSIVE CH PRINTS N DIAGRAP ASSEMBLE D SECOND	IFE IT		
PROC PRINTS	•••THIS IS A RECURSIVE • PROCEDURE WHICH PRINTS • THE INVOCATION DIAGRAM • THE DATABASES ASSEMBLE	00 MH ILE (1.1 °		

. .. FOLL DWING PIECE OF CODE

EESTUMP'NO(= HOST'P) 8 PROC'ARRAV(SNAX'ENTKYS) = 0 HOST'P ROC NAME'' FLAG'ARRAV(SNAX'ENTRYS) = 1 8 FILEG'ARRAV(SNAX'ENTRYS)	**************************************	**************************************
MAKES FOR CONTINUATION IF MAKES FOR CONTINUATION IF INV. DIAGRAM RUNS OFF PAGE LINE LENGTH - 48 8 PROC ARR PROC ARR PLAG	** FEMTIS (MA) = BYTE(\$0.** ** TEMPIS) (MOST**) ** 3.** ** PROC TO MORIZ** ** FLAG*ARRAY(\$MOST**PROC(\$PTR\$*** ** 15. LS 0.** ** 15. LS	NAMES CALLED. NAMES CALLED. TF FLAG-ARAN Y SHOST PROC (SPTRS -

\$

G S DRAFER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRANMER DESIGN DIAGRAM OF WRITE-PROC*WANE

*** ABOVE CAUSES SECOND OCCURRENCE OF RECURSIVE MANE TO BE SUPPRESSED** *** TEMPHAL = BYTE(SO, 18)(AA) \$ ** *** TEMPHAL = BYTE(SO, 18)(AA) \$ ** *** TEMPHAL = BYTE(SO, COLUMN(SPTR**) *** TEMPHAL SOTTEMBERS \$ ** **** TEMPHAL SOTTEMBERS \$ ** **** TEMPHAL SOTTEMBERS \$ ** ***** TEMPHAL SOTTEMBERS \$ ** ****** TEMPHAL SOTTEMBERS \$ ** ******* TEMPHAL SOTTEMBERS \$ ** *********************************	
COND CCURSIVE CCURSIVE LED 44 LED 44 CCULMU (C CCULMU (C	
COURSIVE LES CAD INC. 45 COLUNIC	
A = CNVERTITEMPHH2) & PYTE(16. 15) (AA) = TEMPHH1 & P	
TTE(SS. 1S)(AA) = TEMPHH1 S .	
PPUT-DUTIAN) \$	
***PUT PUT*OUT LINE**	
*** SINE THAT LINE DOES NOT	
CONTINUE PAST THIS PROC	
OIF STOPFELAGISPTR - 18) EQ 1 S + ++++++++++++++++++++++++++++++++	PTR - 123."
15) (HORIZ) = 1M()	-
**NOW LET'S REFORMAT HORIZ BY ADJUSTING HORIZ ITSELF AND CALCULATING A NEW VALUE FOR	

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design diagram of Write-Horiz

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PROC PUSH 8 .

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• TEMPLI) EQ 1 $
                                                                                                                                                                                                                                                                                                                 *****************
                                                                                                                                                                                                                                                                                                                                                 STEMPIL = TEMPIL + 1 S *
                                                                                                                                                                                                                                                                                                                                                                                                     ---STOP-FLAG(80%) = 1 % *
THE RECURSION STACK OF PRINT
THE RECURSION STACK OF PRINT
BY EXAMINING PROCEDURES
CALLED AND DETERMINING IF
THERE ARE HORE TO BE DUMPED
OUT BEYOND THE CURRENT
                                                                                                                                                                                                                                                                    *DO WHILE STEMPS LQ MAX*ENTRY *
                                                                                                                                                                                                                                                                                                                                                                                                         •••SO WE CAN ENTER RECURSIVE ••
• PROC PROPERLY••
                                                                                                                                    ************************
                                                                                                                                                                                                                  * T +
                                                                                                                                                                                                                                                            *************************
                                                                                                     ************************
                                                                                                                                                                                                                                                                                                                                                                                               *******************
                                                                                                                                                                                                       *TEMPI1 = NEXT CALLED(SPTRS)
                                                                                                               *ITEM TEMPI1 INTEGER 8 *ITEM DONE B $
                                                                                                                                                                                             *DONE = 0 $
```

eptr = ptr + 1.8

*HOSI**PROC(SPTRS) = NEW**PROC 8 *

*STOP**FLAG(SPTRS) = 1.8

.. NOW FOR THE PUSH.

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design Diagram of Push

	essenticalleliarity = tentil = estoperes = estoperes = 1
**************************************	TEMPLE = TEMPLE + 1 S C
*TEMPI1 = 0 \$ *TEMPI1 = 0 \$ **CONTROL TEMPI1 LQ MAX'ENTRY ** ** - 1 AND NOT DONE 1	

1

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.--CNVERT
                                                                                                                                                      ---TRMOUT+
                                                                                                                ·--SPACES
ULTIMATELY SELF-RECURSIVE
                                                                                                                                                                                                                                                           ---CNVERT*
                                                                                                                                                                                                                                ---CNVERT
                                                                                                                                                                                                          .--CNVERT
                                                                                                     ---CNVERT
                                                                                                                                                                                                                                               ---LENGTH
                                                   --- CHECK RE CURSION
                                                                                                                                                                                                                      --- OUT LINE
                                                                                                                                                                                                                                                                          --- RE HQUO+
                                                                                                                                                                                 --ENCODE+
                                                                                                                                                                                                                                                                                                                                        ---EQUALS
                                                                                                                                                                    *TU0---
                                                                                                                                                                                                                                                                                      .--SPACES*
                                                                                                                                                                                             ---LENGTH
                                                                                                                                                                                                                                                                                                    .-- SPACES.
                                                                                                                                                                                                                                                                                                                *** FIRST PASS
                                                               ---GET-BIT
                                                                            --- PUT- OUT
                                                                                          --CAT
                                                                                                                                                                                                                                                                                                                             ---FIND
                                      NIWH...
             CN VERT
OUT
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